

ABSTRACT OF THE DISCLOSURE

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*Sub.A >* Structures and methods for using a dome-cap sensor wherein an injection molded flexible dome-cap is positioned over a pressure-sensitive variable-conductance active element of the sensor which is positioned over proximal conductive elements of an electronic circuit. The dome-cap is variably compressible for transferring force of varying intensity into the active element to provide variable conductivity connecting the proximal conductive elements. The electronic circuit reads the active element as being in any one of at least three readable states dependant upon amount of pressure applied to the active element. Relief of compressive force allows the dome-cap to return to a raised position and one which can indicate the sensor as electrically deactivated. Also disclosed is an improved analog sensing circuit including a user manipulable variable-conductance sensor, the improvements including the variable-conductance sensor being an injection molded flexible dome-cap positioned over a pressure-sensitive variable-conductance material and variably compressible to variably compress the material; the variable-conductance material, at least when compressed, is contacting two proximal circuit elements, wherein the degree of compression determines the degree of conductivity between the two proximal circuit elements.